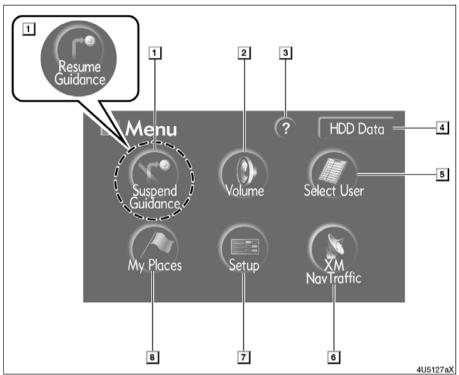
SECTION 4

ADVANCED FUNCTIONS

Descriptions of functions for more effective use

Quick reference (“Menu” screen)

The “Menu” screen allows effective use of the navigation system. To display the “Menu” screen, push the **“MENU”** button.

1 **“Suspend Guidance” or “Resume Guidance”**

Suspends or resumes guidance. 88

2 **“Volume”**

Sets the volume for voice guidance. 89

3 **“?”**

Function help for the “Menu” screen can be viewed on this screen. 27

4 **“HDD Data”**

Displays information regarding the map data and CDDB version or covered area. 322

5 **“Select User”**

Up to 3 different settings for different users can be memorized. 90

6 **“XM NavTraffic”**

Sets XM® NavTraffic information. 116

7 **“Setup”**

Enables various settings for the navigation system. 87, 106

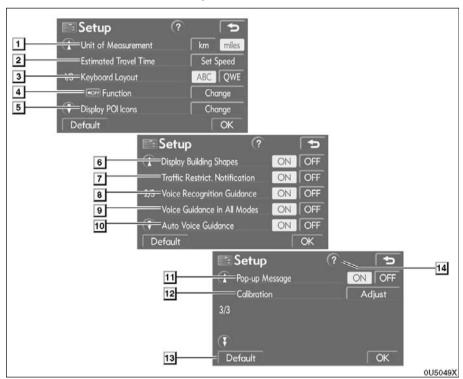
8 **“My Places”**

Enables changes to “Memory points”, “Home” and “Areas to avoid”. Enables deletion of the previous point. 92

Quick reference (“Setup” screen)

The items shown on the “Setup” screen can be set. To display the “Setup” screen, push the **“MENU”** button and touch **“Setup”**.

1 “Unit of Measurement”

The distance units **“km”** or **“miles”** can be selected. 107

2 “Estimated Travel Time”

The system to display the travel time and the arrival time to the destination on the route guidance screen can be set. 107

3 “Keyboard Layout”

Key layout can be changed. 108

4 “ Function”

The choice whether to display each touch–screen button and current street name on the map screen can be set. 109

5 “Display POI Icons”

A selection of 6 icons displayed on the “Display POI Icons” top screen is possible. 110

6 “Display Building Shapes”

Selection of either ON or OFF to display the building shape on the map screen is possible. 111

7 “Traffic Restrict. Notification”

Notification of seasonal restrictions can be selected. 111

8 “Voice Recognition Guidance”

Voice recognition guidance can be set. 112

9 “Voice Guidance in All Modes”

Voice guidance can be set in all modes. 112

10 “Auto Voice Guidance”

Automatic voice guidance can be set. 113

11 “Pop−up Message”

Selection of either ON or OFF to display the pop−up message is possible. 113

12 “Calibration”

Adjustment of the current vehicle position mark can be done manually. 114

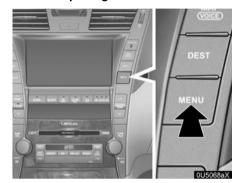
13 “Default”

This touch−screen button initializes all of the settings. 106

14 “?”

Function help for the “Setup” screen can be viewed. 27

Suspending and resuming guidance

- **To suspend guidance**

1. Push the “MENU” button.

2. Touch “Suspend Guidance”.

INFORMATION
Without route guidance, “Suspend Guidance” cannot be used.

The screen will return to the current position map without route guidance.

- **To resume guidance**

1. Push the "MENU" button.

4U5148L

2. Touch "Resume Guidance".

4U5026L

The screen will change to the current position map with route guidance.

Volume

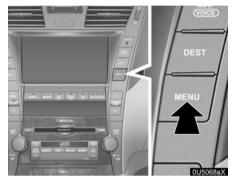
The voice guidance volume can be adjusted or switched off.

0U5068aX

1. Push the "MENU" button.

4U5149L

2. Touch "Volume".

4U5027aL

To adjust the volume, select the desired level by touching the appropriate number.

If voice guidance is not needed, touch **"OFF"** to disable the feature.

When selected the number or **"OFF"** will be highlighted.

3. Touch "OK" to confirm your selection.

INFORMATION

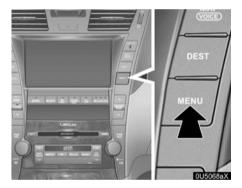
During route guidance, the voice guidance continues even if the navigation screen is changed to other screens.

“Adaptive Volume Control”: By turning “Adaptive Volume Control” on, the volume is turned up automatically when the vehicle speed exceeds 50 mph (80 km/h).

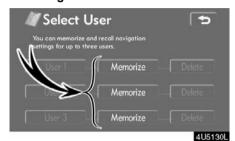
To turn the “Adaptive Volume Control” system on, touch the button. The indicator will be highlighted.

User selection

The system can memorize the following settings for up to three users.

- Map direction
- Map scale
- Map configuration
- Guidance mode
- Setup
- Volume
- Language
- Route trace
- Travel time/arrival time
- Right screen of dual map
- Route preference
- Maintenance notification

1. Push the “MENU” button.

2. Touch “Select User”.

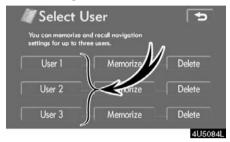
● **To register**

1. Touch "Memorize".

The confirmation screen will be displayed.

2. To register, touch "Yes". To return to the previous screen, touch "No" or [back button].

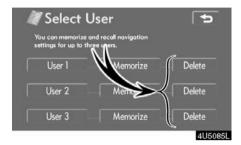
When a button that is already registered is touched, the following screen appears.

To replace, touch **"Yes"**. To cancel the replacement, touch **"No"** or [back button].

● **To change user**

Touch "User number".

The above message appears, then the map screen will be displayed.

- **To delete user**

4U5085L

1. Touch “Delete”.

The confirmation screen will be displayed.

4U5032aL

2. To delete, touch “Yes”. To return to the previous screen, touch “No” or [back button].

My places —

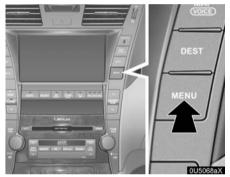
Points or areas on the map can be registered.

The registered points can be used on the “Destination” screen. (See “ — Destination search by Home” on page 42, “ — Destination search by Quick access” on page 42 and “ — Destination search by Memory” on page 55.)

Registered areas are avoided at the time of route search.

0U5068aX

1. Push the “MENU” button.

4U5151L

2. Touch “My Places”.

On this screen, the following operations can be performed.

1 **Registers memory points**
(See " — Registering memory points" on page 93.)

2 **Edits memory points**
(See " — Editing memory points" on page 94.)

3 **Deletes memory points**
(See " — Deleting memory points" on page 99.)

4 **Registers or deletes home**
(See " — Registering home" on page 100 or " — Deleting home" on page 101.)

5 **Registers areas to avoid**
(See " — Registering area to avoid" on page 101.)

6 **Edits areas to avoid**
(See " — Editing area to avoid" on page 102.)

7 **Deletes areas to avoid**
(See " — Deleting area to avoid" on page 105.)

8 **Deletes previous points**
(See " — Deleting previous points" on page 106.)

9 **Number of remaining memory points**

10 **Number of remaining areas to avoid**

— Registering memory points

1. Push the "MENU" button.

2. Touch "My Places" on the "Menu" screen.

3. Touch "Register".

4. Enter the location in the same way as for a destination search. (See "Destination search" on page 39.)

After memory point registration is completed, the "Memory Point" screen will be displayed.

5. Touch “OK”.

To edit registered information, see “ — Editing memory points” on page 94.

INFORMATION
Up to 106 memory points can be registered.

— Editing memory points

The icon, attribute, name, location and/or telephone number of a registered memory point can be edited.

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Edit”.

4. Touch the desired memory point button.

4U5036L

5. Touch the button to be edited.

"Icon": To select icons to be displayed on the map. (See page 95.)

"Quick Access": To set an attribute. Memory points with a set attribute can be used as a "Quick access" or "Home" button. (See page 96.)

"Name": To edit memory point names. The names can be displayed on the map. (See page 97.)

"Location": To edit location information. (See page 98.)

"Phone #": To edit telephone numbers. (See page 99.)

6. Touch "OK".

- **To change "Icon"**

1. Touch "Icon" on the "Memory Point" screen.

4U5039L

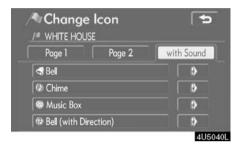
2. Touch the desired icon.

Turn the page by touching **"Page 1"**, **"Page 2"** or **"with Sound"**.

SOUND ICONS

When the vehicle approaches the memory point, the selected sound will be heard.

1. Touch "with Sound" on the "Change Icon" screen.

4U5040L

2. Touch the desired sound icon.

The next screen appears when **"Bell (with Direction)"** is touched.

4U5041aL

Touch either [button] or [button] to adjust the direction. Touch "Enter".

The bell sounds only when the vehicle approaches this point in the direction that has been set.

- **To change "Quick Access"**

It is possible to change attributes of the quick access points. Memory points with a set attribute can be used as a "Quick Access" or "Home" touch–screen button. (See " — Destination search by Home" on page 42 and " — Destination search by Quick access" on page 42.)

1. Touch "Quick Access" on the "Memory Point" screen.

4U5042L

2. Touch the desired attribute.

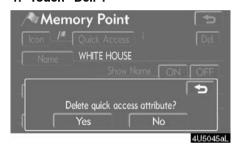
It is possible to replace a registered attribute.

4U5043aL

3. To replace the attribute, touch "Yes". To return to the previous screen, touch "No" or [button].

INFORMATION
One "Home" and five "Quick Access" can be set.

DELETING "Quick Access"

1. Touch "Del.".

2. To delete an attribute, touch "Yes". To return to the previous screen, touch "No" or [back button].

- **To change "Name"**

1. Touch "Name" on the "Memory Point" screen.

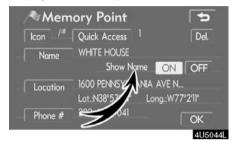
2. Enter the name using the alphanumeric keys.

Up to 24 letters can be entered.

3. Touch "OK".

The previous screen will be displayed.

DISPLAYING MEMORY POINT NAMES

The name of a memory point that may be displayed on the map can be set.

To show the name, touch “ON” on the “Memory Point” screen. To not show it, touch “OFF”.

- **To change “Location”**

1. Touch “Location” on the “Memory Point” screen.

2. Touch the eight directional touch–screen button to move the cursor ⌖ to the desired point on the map.

3. Touch “Enter”.

The previous screen will be displayed.

- **To change “Phone #” (telephone number)**

1. Touch “Phone #” on the “Memory Point” screen.

2. Enter the number using number keys.

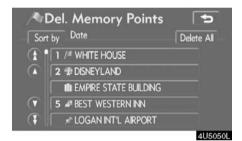
3. Touch “OK”.

The previous screen will be displayed.

— Deleting memory points

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Delete”.

4. Touch the button to be deleted.

“Delete All”: To delete all memory points in the system.

5. To delete the memory point, touch “Yes”. To cancel the deletion, touch “No”.

— Registering home

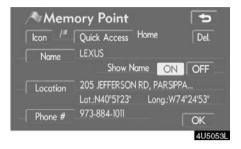
If home has been registered, that information can be recalled by using the “Home” touch−screen button on the “Destination” screen. (See “ — Destination search by Home” on page 42.)

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Register”.

4. Enter the location in the same way as for a destination search. (See “Destination search” on page 39.)

When registration of home is completed, the “Memory Point” screen will be displayed.

5. Touch “OK”.

To edit registered information, see “ — Editing memory points” on page 94.

— Deleting home

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

4U5054L

3. Touch “Delete”.

4. To delete home, touch “Yes”. To cancel the deletion, touch “No”.

— Registering area to avoid

Areas you want to avoid because of traffic jams, construction work or other reasons can be registered as areas to avoid.

1. Push the “MENU” button.

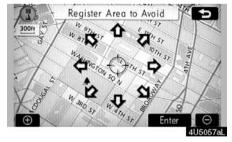
2. Touch “My Places” on the “Menu” screen.

4U5055L

3. Touch “Register”.

4U5133L

4. Enter the location in the same way as for a destination search, or display the map of the area to be avoided. (See “Destination search” on page 39.)

4U5057aL

5. Touch the eight directional touch–screen button to move the cursor ⌖ to the desired point on the map.

6. Touch “Enter”.

7. Touch either [up] or [down] to change the size of the area to be avoided.

8. Touch “OK”.

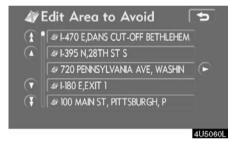
> ***INFORMATION***
>
> - ***If a destination is input in the area to avoid or the route calculation cannot be made without running through the area to avoid, a route passing through the area to be avoided may be shown.***
> - ***Up to 10 locations can be registered as points/areas to avoid. If there are 10 locations already registered, the following message will be displayed: “Unable to register additional points. Perform operation again after deleting unnecessary points.”.***

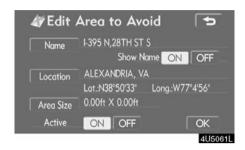
— Editing area to avoid

The name, location and/or area size of a registered area can be edited.

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Edit”.

4. Touch the desired area button.

4U5061L

5. Touch the button to be edited.

"Name": To edit the name of the area to avoid. The names can be displayed on the map. (See page 103.)

"Location": To edit area location. (See page 104.)

"Area Size": To edit area size. (See page 105.)

"Active": To turn on or off the area to avoid feature. To turn on the feature touch "**ON**" on the "Edit Area to Avoid" screen. To turn off the feature touch "**OFF**" on the "Edit Area to Avoid" screen.

6. Touch "OK".

- **To change "Name"**

1. Touch "Name" on the "Edit Area to Avoid" screen.

4U5134L

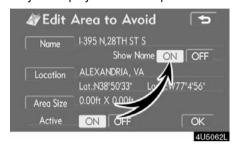
2. Enter the name using alphanumeric keys.

Up to 24 letters can be entered.

3. Touch "OK".

The previous screen will be displayed.

DISPLAYING NAMES OF AREAS TO BE AVOIDED

The name of an area to be avoided that may be displayed on the map can be set.

To show the name, touch "ON" on the "Edit Area to Avoid" screen. To not show it, touch "OFF".

- **To change "Location"**

1. Touch "Location" on the "Edit Area to Avoid" screen.

2. Touch the eight directional touch–screen button to move the cursor ⌖ to the desired point on the map.

3. Touch "Enter".

The previous screen will be displayed.

- **To change "Area Size"**

1. Touch "Area Size" on the "Edit Area to Avoid" screen.

2. Touch either [▲] or [▼] to change the size of the area to be avoided.

3. Touch "OK".

The previous screen will be displayed.

— Deleting area to avoid

1. Push the "MENU" button.

2. Touch "My Places" on the "Menu" screen.

3. Touch "Delete".

4. Touch the button to be deleted.

"Delete All": To delete all registered areas to avoid in the system.

5. To delete the area, touch "Yes". To cancel the deletion, touch "No".

— Deleting previous points

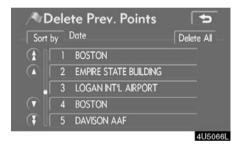
The previous destination can be deleted.

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

4U5108L

3. Touch “Delete Previous Points”.

4U5066L

4. Touch the button you want to delete.

“Delete All”: To delete all previous points in the system.

4U5067aL

5. To delete the point, touch “Yes”. To cancel the deletion, touch “No”.

Setup

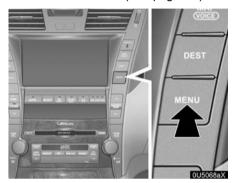
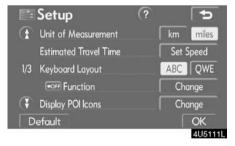
Setting the items shown on the “Setup” screen can be done. (See page 87.)

0U5068aX

1. Push the “MENU” button.

4U5152L

2. Touch “Setup”.

4U5111L

3. Touch the items to be set.

4. Touch “OK”.

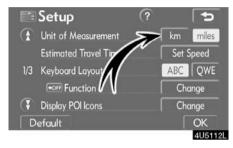
The previous screen will be displayed.

INFORMATION
To reset all setup items, touch “Default”.

● **Unit of Measurement**

Unit of measurement can be changed.

1. Push the "MENU" button.

2. Touch "Setup" on the "Menu" screen.

3. Touch "km" or "miles" of "Unit of Measurement" to choose the distance unit.

The selected button is highlighted.

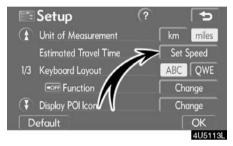
4. Touch "OK".

INFORMATION
This function is available only in English or Spanish. To switch language, see "Selecting a language" on page 199.

● **Estimated travel time**

The speed that is used for the calculation of the estimated travel time and the estimated arrival time can be set.

1. Push the "MENU" button.

2. Touch "Setup" on the "Menu" screen.

3. Touch "Set Speed" of the "Estimated Travel Time".

4. Touch ◀ or ▶ to set the average vehicle speeds for "Residential", "Main street", and "Freeway".

To set the default speeds, touch **"Default"**.

5. After setting of the desired speeds is completed, touch "OK".

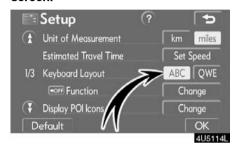
INFORMATION

- ***The displayed time to the destination is the approximate driving time that is calculated based on the selected speeds and the actual position along the guidance route.***
- ***The time shown on the screen may vary greatly depending on progress along the route, which may be affected by road conditions such as traffic jams, and construction work.***
- ***It is possible to display up to 99 hours 59 minutes.***

- **Input key layout**

Key layout can be changed.

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

3. Touch “ABC” or “QWE” of “Keyboard Layout” to choose the input key layout.

LAYOUT TYPE

▶ **"ABC" type**

▶ **"QWE" type**

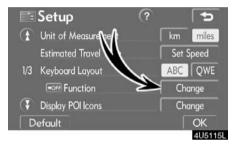
The selected button is highlighted.

4. Touch "OK".

● **Screen layout function (OFF Function)**

Each touch−screen button and current street name on the map screen can be displayed or hidden.

1. Push the "MENU" button.

2. Touch "Setup" on the "Menu" screen.

3. Touch "Change" of " OFF Function".

4. Touch the button to be turned off. The button becomes dimmed.

To set the default, touch **"Default"**.

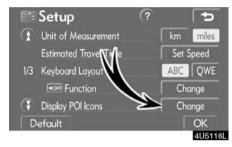
5. Touch "OK".

- **POI category change (Display POI Icons)**

Select from among the 6 icons displayed on the “Display POI Icons” top screen, so that setting of the icons to be displayed on the map screen can be done easily.

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

4U5116L

3. Touch “Change” of “Display POI Icons”.

4U5075aL

4. Touch the category button to be changed.

4U5076L

5. Touch the category button to be displayed on the “Display POI Icons” top screen.

6. Touch “OK”.

- **Display of building shape**

When the “Display Building Shapes” feature is turned on, the system will display the building shape on the map screen using a scale of 150 feet (50 m) to 300 feet (100 m).

To turn the “Display Building Shapes” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

Then touch ⬇ to display page 2 of the “Setup” screen.

3. Touch “ON” of “Display Building Shapes”.

The selected button is highlighted.

4. Touch “OK”.

- **Notifying traffic restriction**

When the “Traffic Restrict. Notification” feature is turned on, the system notifies you of traffic or seasonal restrictions.

To turn the “Traffic Restrict. Notification” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

Then touch ⬇ to display page 2 of the “Setup” screen.

3. Touch “ON” of “Traffic Restrict. Notification”.

The selected button is highlighted.

4. Touch “OK”.

- **Voice recognition guidance**

When the "Voice Recognition Guidance" feature is turned on, the voice recognition guidance can be heard automatically.

To turn the "Voice Recognition Guidance" on:

1. Push the "MENU" button.

2. Touch "Setup" on the "Menu" screen.

Then touch [icon] to display page 2 of the "Setup" screen.

3. Touch "ON" of "Voice Recognition Guidance".

The selected button is highlighted.

4. Touch "OK".

- **Voice guidance in all modes**

When the "Voice Guidance in All Modes" feature is turned on, the voice guidance in all modes can be heard.

When the "Voice Guidance in All Modes" feature is turned off, voice guidance cannot be heard when using the audio system.

To turn the "Voice Guidance in All Modes" on:

1. Push the "MENU" button.

2. Touch "Setup" on the "Menu" screen.

Then touch [icon] to display page 2 of the "Setup" screen.

3. Touch "ON" of "Voice Guidance in All Modes".

The selected button is highlighted.

4. Touch "OK".

- **Auto voice guidance**

When the “Auto Voice Guidance” feature is turned on, the voice guidance can be heard automatically.

When the “Auto Voice Guidance” feature is turned off, the voice guidance can be heard only if the **“MAP/VOICE”** button is pushed.

To turn the “Auto Voice Guidance” mode on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

Then touch [icon] to display page 2 of the “Setup” screen.

3. Touch “ON” of “Auto Voice Guidance”.

The selected button is highlighted.

4. Touch “OK”.

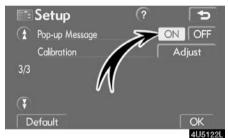
- **Pop−up message**

When the “Pop−up Message” is turned on, the pop−up message will be displayed.

To turn the “Pop−up Message” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

Then touch [icon] twice to display page 3 of the “Setup” screen.

3. Touch “ON” of “Pop−up Message”.

The selected button is highlighted.

4. Touch “OK”.

When the “Pop−up Message” is turned off, the following messages will not displayed.

This message appears when the system is in the POI mode and the map scale is over 0.5 miles (800 m).

The message appears when the map is switched to the dual map screen mode.

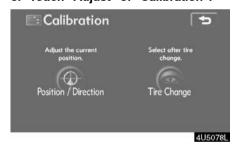
- **Current position/tire change calibration**

The current vehicle position mark can be adjusted manually. Miscalculation of the distance caused by tire replacement can also be adjusted.

1. Push the “MENU” button.

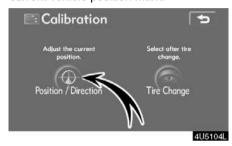
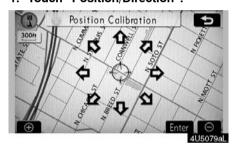
2. Touch “Setup” on the “Menu” screen.

Then touch [icon] twice to display page 3 of the “Setup” screen.

3. Touch “Adjust” of “Calibration”.

4. Touch the desired button.

INFORMATION
For additional information on the accuracy of a current vehicle position, see “Limitations of the navigation system” on page 320.

POSITION/DIRECTION CALIBRATION

When driving, the current vehicle position mark will be automatically corrected by GPS signals. If GPS reception is poor due to location, you can manually adjust the current vehicle position mark.

1. Touch "Position/Direction".

2. Touch the eight directional touch–screen button to move the cursor ⌖ to the desired point on the map.

3. Touch "Enter".

4. Touch either [button] or [button] to adjust the direction of the current vehicle position mark.

5. Touch "Enter".

The map screen will be displayed.

TIRE CHANGE CALIBRATION

The tire change calibration function will be used when replacing the tires. This function will adjust the miscalculation caused by the circumference difference between the old and new tires. If this procedure is not performed when the tires are replaced, the current vehicle position mark may be incorrectly displayed.

To perform a distance calibration procedure, touch "Tire Change" on the "Calibration" screen.

The message appears and the quick distance calibration is automatically started. A few seconds later, a map screen will be displayed.

XM® NavTraffic

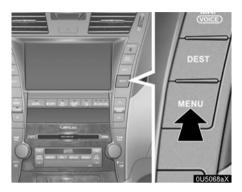
The XM® NavTraffic service that allows the navigation system to display traffic information on the map is available if your satellite radio tuner can receive traffic information.

For details about the XM® NavTraffic service coverage area, refer to www.xmradio.com.

- How to activate the XM® NavTraffic service

  To receive the XM® NavTraffic service, it is necessary to activate the service. To activate the service, an extra fee is required in addition to subscription fees for the XM® Satellite Radio. For details about service and activation, call XM® Listener Care at 1−877−515−3987.

Customers should have their radio ID ready; the radio ID can be found by selecting "channel 000" on the radio. For details, see "Displaying the radio ID" on page 215.

All fees and service are the responsibility of the XM® Satellite Radio and are subject to change.

1. Push the “MENU” button.

2. Touch “XM NavTraffic”.

On this screen, the following operations can be performed.

1 Show XM® NavTraffic Information

Traffic information is displayed on the map. (See page 118.)

2 Auto Avoid Traffic

If any heavy congestion or moderate traffic has been detected on the guidance route, it may be possible for you to select another route offered by the system. (See page 119.)

3 Traffic Voice Guidance

Traffic information is provided using voice guidance. (See page 120.)

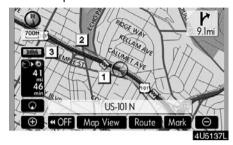
4 Show Free Flowing Traffic

Freely flowing traffic is shown by the arrow on the map. (See page 120.)

INFORMATION

When “OFF” for “Show XM NavTraffic Information” is selected, “Auto Avoid Traffic”, “Traffic Voice Guidance” and “Show Free Flowing Traffic” will not operate.

(a) Show XM® NavTraffic information

XM® NavTraffic information is displayed on the map.

▶ **Map screen**

▶ **Freeway information screen**

1 XM® NavTraffic icon

When any traffic information has been received, the XM® NavTraffic icon will appear on the map screen. Touching the XM® NavTraffic icon on the screen will start voice guidance for the traffic information. (See page 119.)

INFORMATION

When the XM® NavTraffic icon is touched, voice guidance for the traffic information will start even if "OFF" for "Traffic Voice Guidance" is selected.

2 XM® NavTraffic information arrow

When any XM® NavTraffic information has been received, the XM® NavTraffic information arrow will appear on the map screen. The color of the arrow changes depending on the traffic information received.

"Orange": Heavy congestion

"Yellow": Moderate traffic

"Green": Freely flowing traffic

3 **XM® NavTraffic indicator**

When any XM® NavTraffic information has been received, the XM® NavTraffic indicator will appear on the screen. The color of the indicator changes depending on the traffic information received.

"White": Traffic information has been received.

"Yellow": Traffic restriction information on the guidance route has been received (touch switch*).

"Orange": Congestion information on the guidance route has been received (touch switch*).

*: Touching the XM® NavTraffic indicator will start voice guidance.

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Touch "ON" of the "Show XM NavTraffic Information.".

(b) Auto Avoid Traffic

The guidance route automatically changes to another route to avoid heavy congestion.

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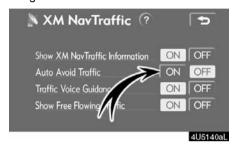
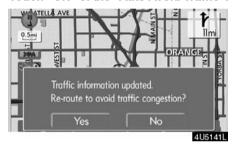

Touch "ON" of the "Auto Avoid Traffic".

4U5141L

When congestion information about the guidance route has been received, a screen will appear to ask you whether to reroute to avoid the congestion.

If you wish to reroute, touch **"Yes"**. Another route to allow you to avoid the congestion will appear.

If you do not wish to reroute, touch **"No"**.

(c) Traffic Voice Guidance

You can receive congestion information through voice guidance while being guided to your destination.

Touch “ON” of the “Traffic Voice Guidance”.

INFORMATION

This function is available only in English. To switch language, see “Selecting a language” on page 199.

(d) Show Free Flowing Traffic

Freely flowing traffic is shown with the arrow.

Touch “ON” of the “Show Free Flowing Traffic”.

(e) XM® NavTraffic text information

When you touch the XM® NavTraffic icon on the map, the XM® NavTraffic info. bar will appear on the upper part of the screen.

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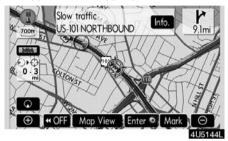
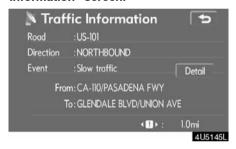

1. Touch "Info." to display the "Traffic Information" screen.

4U5145L

2. Touch "Detail" to display detailed traffic event information.

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